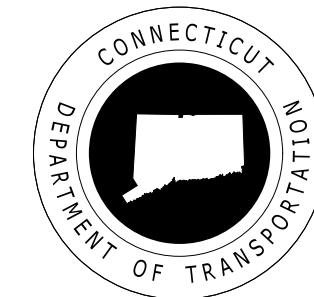


CONNECTICUT DEPARTMENT OF TRANSPORTATION

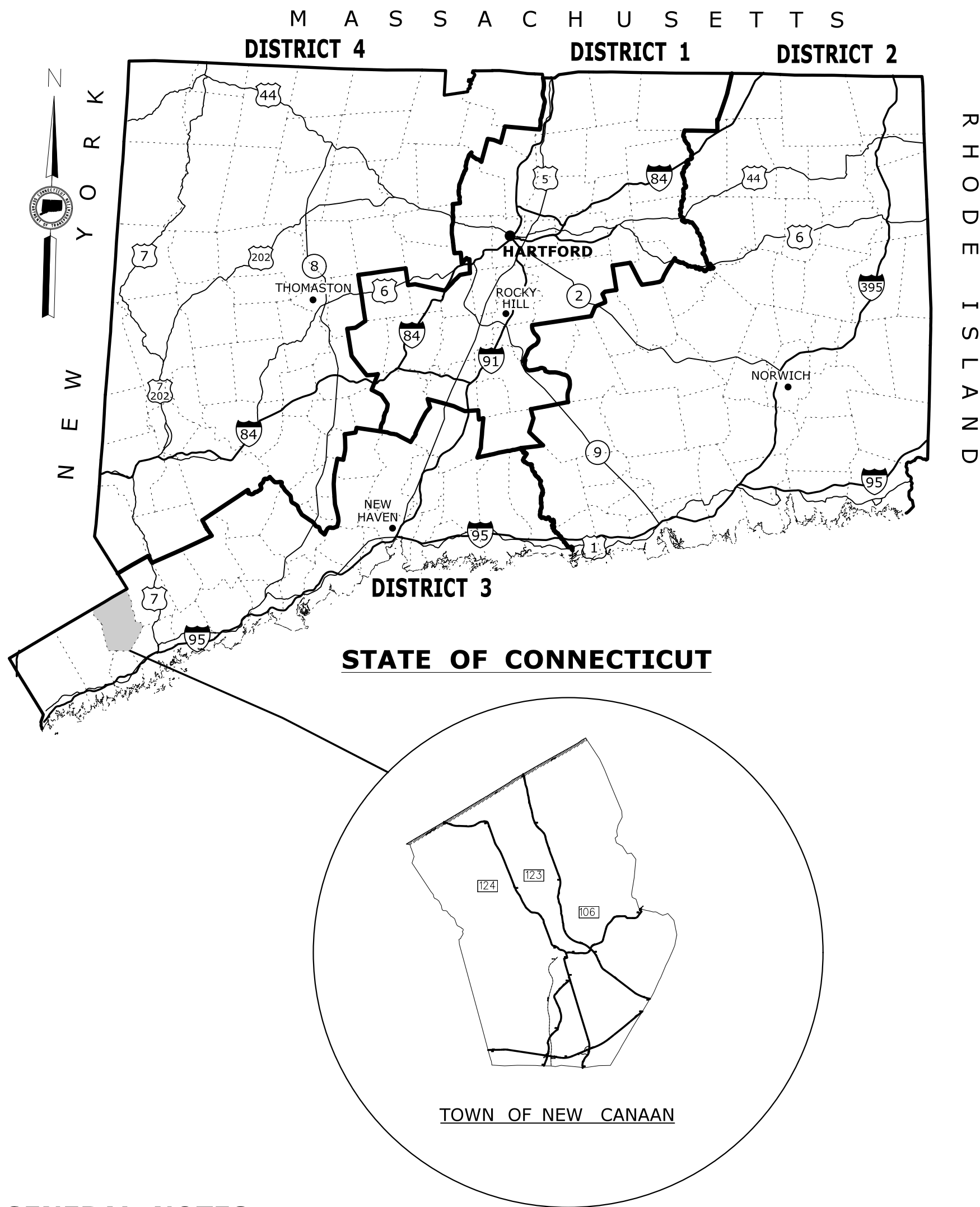


Plans For

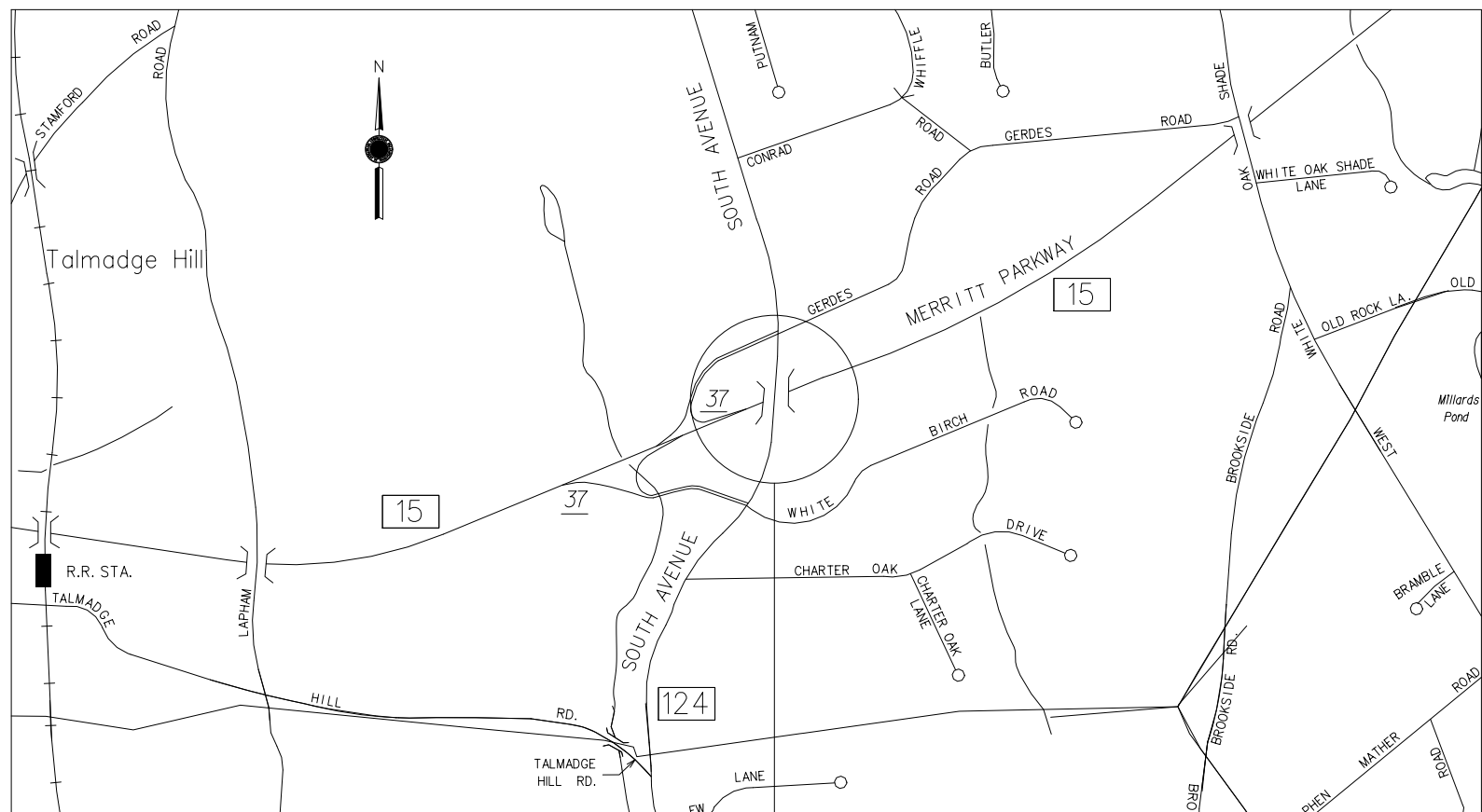
MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

Town(s)/City of

TOWN OF NEW CANAAN



LIST OF DRAWINGS VOLUME 02, SUBSET 02 - STRUCTURES	
DRAWING TITLE	DRAWING NO.
TITLE SHEET	S-0
GENERAL NOTES AND QUANTITIES SOUTH AVE	S-1
GENERAL PLAN BRIDGE NO. 00712 SOUTH AVE	S-2
STAGE CONSTRUCTION BRIDGE NO. 00712	S-3
STAGE CONSTRUCTION - MP&T 1 BRIDGE NO. 00712	S-4
STAGE CONSTRUCTION - MP&T 2 BRIDGE NO. 00712	S-5
TYPICAL CONCRETE REPAIR DETAILS	S-6
TYPICAL CONCRETE REPAIR DETAILS 2	S-7
ORIGINAL PLANS	S-8 TO S-11



BRG. 00712: MERRITT PARKWAY UNDER
RTE. 124 (SOUTH AVE.)

GENERAL NOTES:

- FEDERAL AID PROJECT NO. 0124(005)
- CONSTRUCTION SPECIFICATIONS:
CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS
FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, DATED 2004;
SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 2013; AND SPECIAL PROVISIONS
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE
SYSTEM N.A.D. 1983
- VERTICAL DATUM BASED ON NGVD OF 1929

THIS PROJECT IS COMBINED WITH THE FOLLOWING PROJECTS:

- PROJECT No. 135-270
- PROJECT No. 89-126
- PROJECT No. 135-304
- PROJECT No. 135-316
- PROJECT No. 303-007

*THE INITIAL VOLUME &
SUBSET SHEET COUNT DOES
NOT INCLUDE ADDENDUMS
AND CHANGE ORDERS

VOLUME 02 SUBSETS		
SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	PROJECT 135-270	80
02	PROJECT 89-125	12
03	PROJECT 89-126	11
04	PROJECT 135-304	10
05	PROJECT 135-316	12
06	TYPICAL BREAKAWAY SIGNPOST	7

STANDARD CONVENTIONS			
North Arrow, W/No. Coord.	Grid Arrow	Chain Link Fence	Riprap
Edge Of Road	Limit Of Marsh	Rustic Fence	Hedge Row
Concrete Pavement	Stone Wall	Pipe Fence	Tree Line
Dirt Road	Ledge Outcrop	Board Fence	Shrub
B.C.L.C.	Inland Wetland Limits	Water Edge	Evergreen Tree
Granite Curb	STATE LINE	Stream	Deciduous Tree
Guide Rail	Power Line	Ditch	Retaining Wall
Concrete Median Barrier	Swamp	TOWN LINE	Highway Line
Bit. Walk	Building		Street Line
Conc. Sidewalk	Transmission Tower		Property Line
Railroad Tracks			Lot Line
			Easement Line

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS
NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE
BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

LOCATION PLAN

NOT TO SCALE

Plans For
MERRITT PARKWAY (ROUTE 15)
SAFETY IMPROVEMENTS, RESURFACING,
ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

Town(s)/City
TOWN OF NEW CANAAN

STATE PROJECT NO.

89-125

DRAWING NO.

S-0

SHEET NO.

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2012 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (2010), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTAION BRIDGE DESIGN MANUAL 2003 AND MERRITT PARKWAY BRIDGE RESTORATION GUIDE (2002).

MATERIAL PROPERTIES:

CLASS 'S' CONCRETE: F'C = 4000 PSI
CLASS 'S' CONCRETE FOR HISTORIC BRIDGES: F'C = 3000 PSI
REINFORCEMENT: ASTM A615 GRADE 60, FY = 60 KSI

FUTURE PAVING ALLOWANCE: NONE

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS 'MAINTENANCE AND PROTECTION OF TRAFFIC' AND 'PROSECUTION AND PROGRESS'

CONCRETE REPAIRS: ALL CONCRETE REPAIRS SHALL BE HISTORIC UNLESS SPECIFIED OTHERWISE.

SALVAGE: NONE

UTILITIES: THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES BEFORE BRIDGE WORK BEGINS. REFER TO NOTICE TO CONTRACTOR - NOTIFICATION OF UTILITIES.

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: THE DIMENSIONS SHOWN ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.

ALL REINFORCEMENT SHALL BE UNCOATED. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS".

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

BITUMINOUS CONCRETE OVERLAY: THE PAVEMENT SHALL CONSIST OF HMA S0.5. THE TOP COURSE SHALL HAVE A UNIFORM 2" THICKNESS.

STAGING OF BRIDGE WORK: STAGING ALONG THE MERRITT PARKWAY FOR WORK AT THE BRIDGE SHALL BE COORDINATED WITH THE STAGING ALONG THE MERRITT PARKWAY FOR ROADWAY WORK.

TRAFFIC CONTROL ON BRIDGE: THE CONTRACTOR SHALL NOTIFY THE TOWN OF NEW CANAAN AND THE TOWN'S TRAFFIC AUTHORITY OF HIS INTENTION TO ESTABLISH M&PT CONTROLS A MINIMUM OF ONE MONTH IN ADVANCE OF SUCH TRAFFIC CONTROL. REFER TO PROSECUTION AND PROGRESS FOR CONTACT INFORMATION.

RECONSTRUCTION OF SOUTH AVE: PRIOR TO EXCAVATION, THE CONTRACTOR SHALL SURVEY THE EXISTING ROADWAY CENTER LINE AND GUTTER LINE PROFILES TO RE-ESTABLISH THE FINAL ROADWAY TO MATCH THE EXISTING.

INTRADOS AND FRAME UNDERSIDE REPAIRS: THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MEANS AND METHODS ARE THOROUGHLY CONSIDERED FOR ANY REPAIRS TO THE INTRADOS OR FRAME UNDERSIDES OF THE BRIDGES. CONSTRUCTION TECHNIQUES SHOULD BE IN PLACE THAT ALLOW FOR QUALITY CONTROL AND QUALITY ASSURANCE AND THOSE TECHNIQUES SHOULD BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW PRIOR TO ANY ATTEMPTED UNDERSIDE REPAIRS. REFER TO THE SPECIAL PROVISIONS FOR REQUIREMENTS REGARDING DETAILS OF THE SUBMITTAL.

EXISTING LOW CLEARANCE: LOW VERTICAL CLEARANCES BETWEEN THE ROADWAY AND THE UNDERSIDE OF BRIDGE FASCIA ARE DENOTED BY "LC". THESE CLEARANCES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. FORMWORK AND FALSEWORK MUST MAINTAIN MINIMUM VERTICAL CLEARANCES AS DENOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

HEAVY EQUIPMENT: THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LIST OF PROPOSED EQUIPMENT FOR USE ON THE BRIDGE. THE USE OF VIBRATORY ROLLERS ON THE BRIDGE IS PROHIBITTED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURAL INTEGRITY OF THE BRIDGE DURING CONTRACT OPERATIONS.

NOTICE TO BRIDGE INSPECTORS


THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUCTED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE. THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.

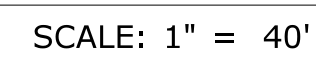
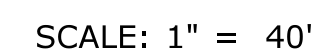
COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
FOLLOW NORMAL INSPECTION PROCEDURES	-

INSPECTION OF FIELD WELDS		
METHOD	UNIT	AMOUNT
ULTRASONIC	IN	0
MAGNETIC PARTICLE	FT	0

CONCRETE DISTRIBUTION		
ITEM	UNIT	AMOUNT
SUPERSTRUCTURE	FT ³	-
SUBSTRUCTURE	FT ³	-
FOOTINGS	FT ³	-
TOTAL	FT ³	-

PROJECT		SITE LOCATION		BRIDGE ITEMS										ITEM NO.										
089-125	SITE NO. 12: BRG 00712 - MP UNDER SOUTH AVE.	C.Y.	S.Y.	L.F.	TON	GAL	L.S.	C.F.	C.F.	EA.	L.F.	C.F.	EA.	EA.	EA.	S.Y.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.
SUBTOTAL		5	875	552	240	26	L.S.	97	110	3	15	10	1	32	400	428	112	1080	1080	2	8	4	2	
UNASSIGNED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL		5	875	552	240	26	L.S.	97	110	3	15	10	1	32	400	428	112	1080	1080	2	8	4	2	

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: JC/MC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: NEW CANAAN	PROJECT NO. 089-125
-	-	-	-		CHECKED BY: KVB		DRAWING TITLE: GENERAL NOTES AND QUANTITIES SOUTH AVE			DRAWING NO. S-1
-	-	-	-		SCALE AS NOTED		SHEET NO.			
-	-	-	-							
-	-	-	-							
-	-	-	-							
REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date: 2/20/2013	Filename: ...\\SB-089-125-Brg712-Title-Sheet.dgn				



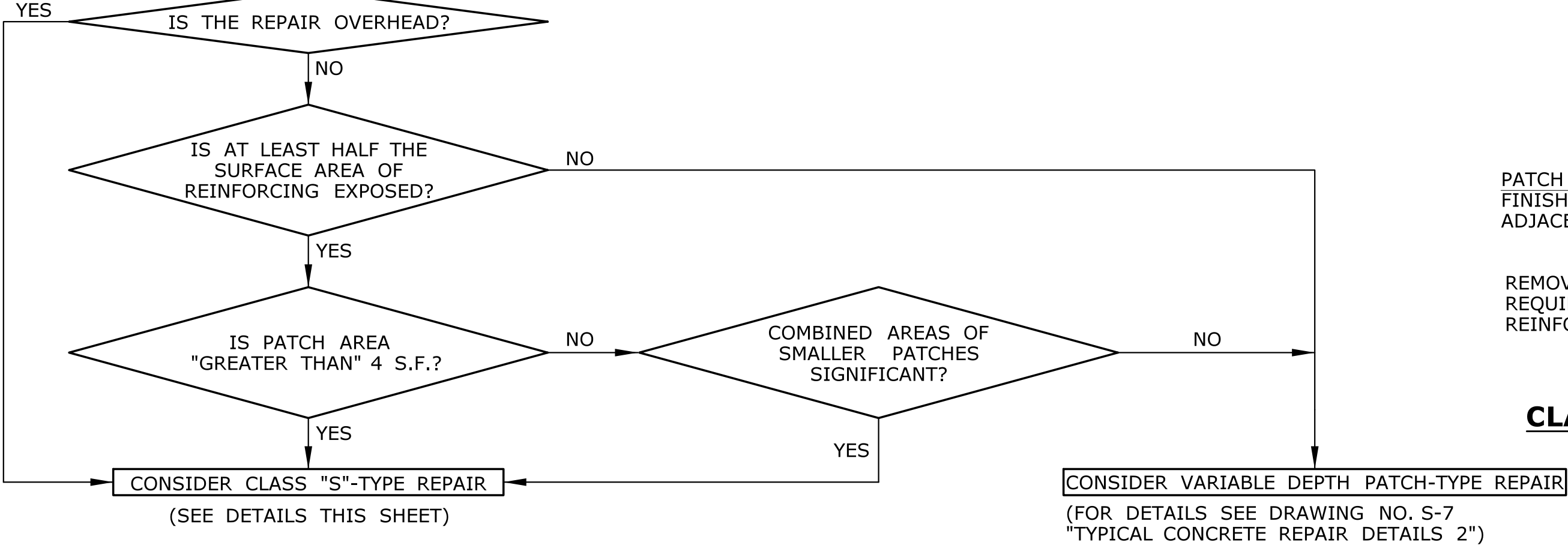
- SCALE: $\frac{1}{16}" = 1'-0"$

SCALE: $\frac{1}{16}" = 1'-0"$

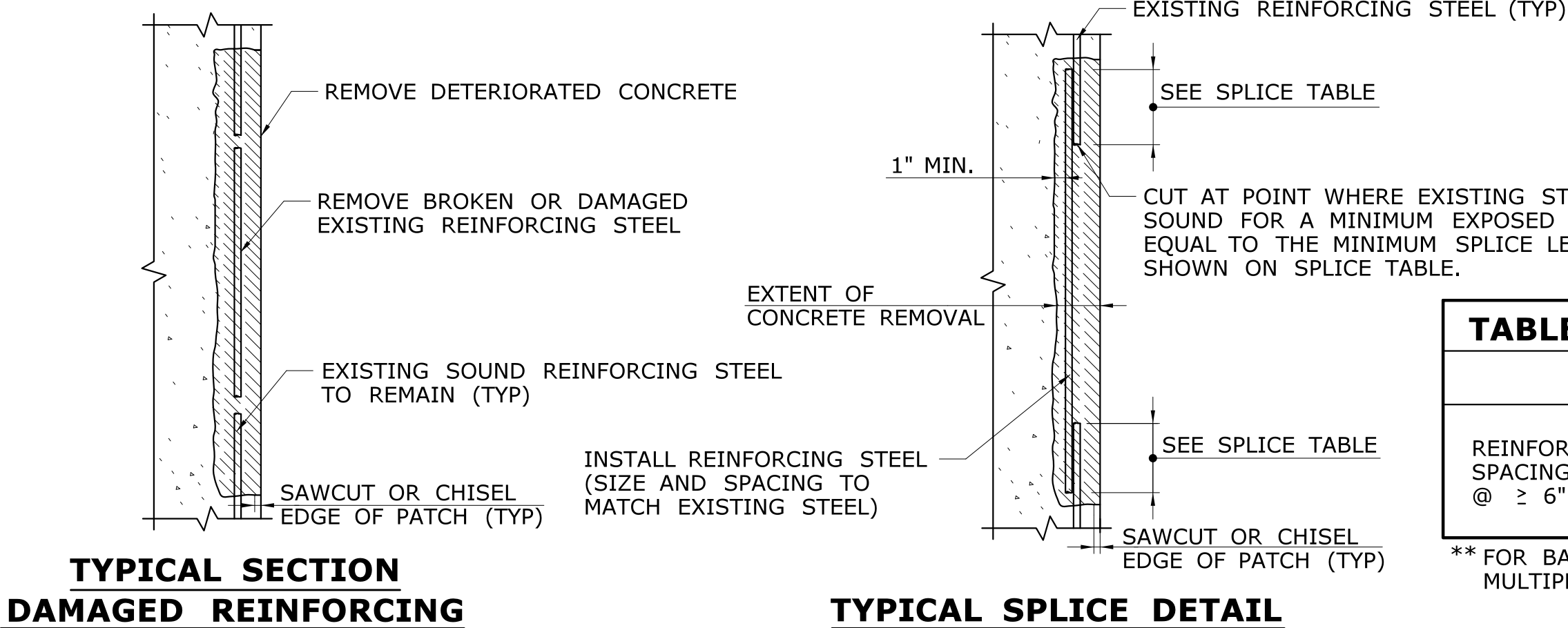
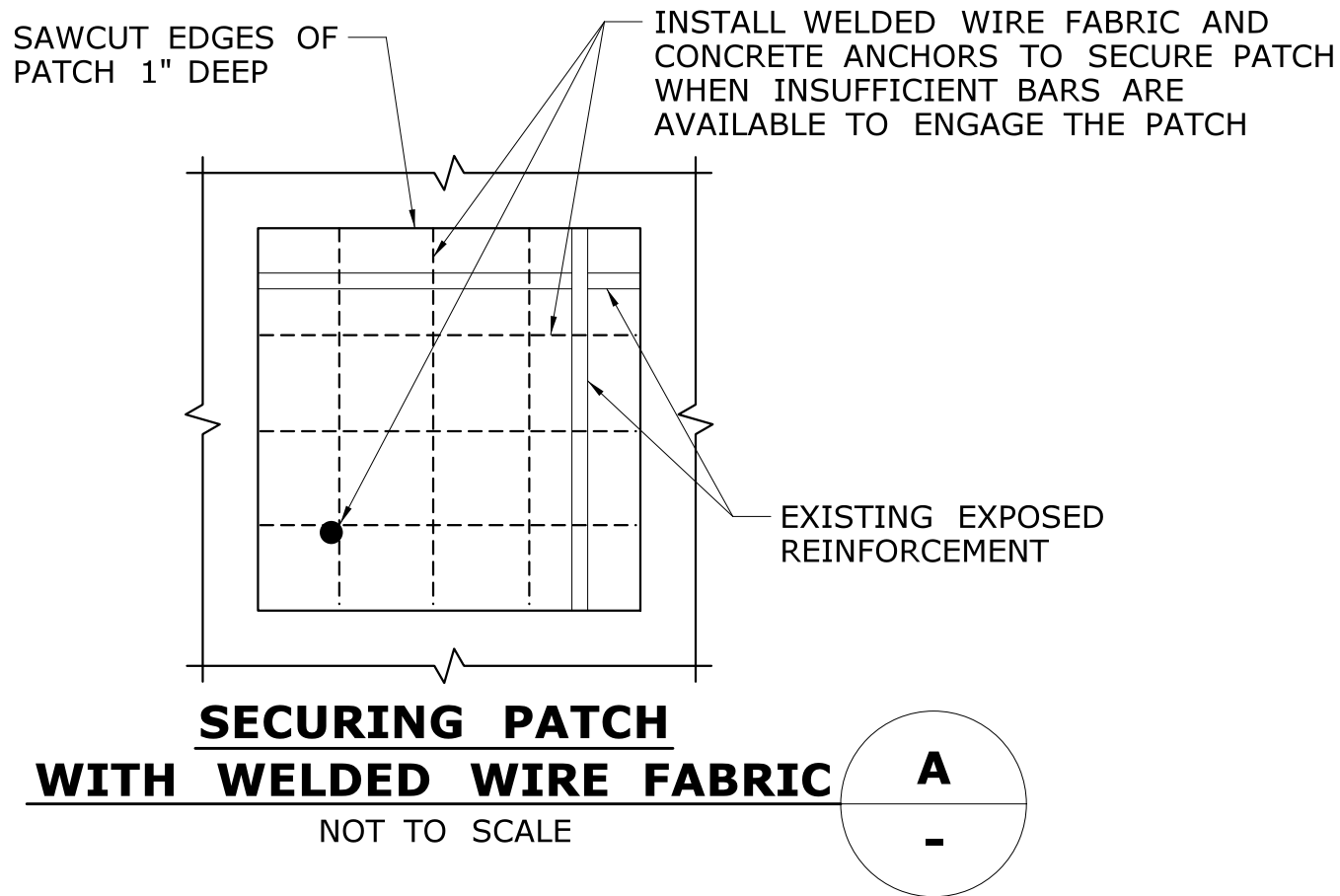
<div><div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div></div><div>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</div></div>				<div>DESIGNER/DRAFTER: JPC/OF/JMF</div> <div>CHECKED BY: KVB/PJC</div> <div>SCALE AS NOTED</div>		<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>STATE OF CONNECTICUT</div><div>DEPARTMENT OF TRANSPORTATION</div></div><div>Filename: ...\\SB-089-125-Brg712-Traffic-MP&T-1.dgn</div></div></div><div><div>SIGNATURE/ BLOCK: OFFICE OF ENGINEERING</div><div>APPROVED BY:</div></div></div>		<div>PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS</div>		<div>TOWN: NEW CANAAN</div> <div>DRAWING TITLE: STAGE CONSTRUCTION - MP&T 1 BRIDGE NO.00712</div>		<div>PROJECT NO. 89-125</div> <div>DRAWING NO. S-4</div> <div>SHEET NO.</div>	
<div>REV. DATE REVISION DESCRIPTION SHEET NO.</div> <div>Plotted Date: 2/19/2013</div>													

[illegible]

DELINEATE AND REMOVE AREAS OF UNSOUND CONCRETE

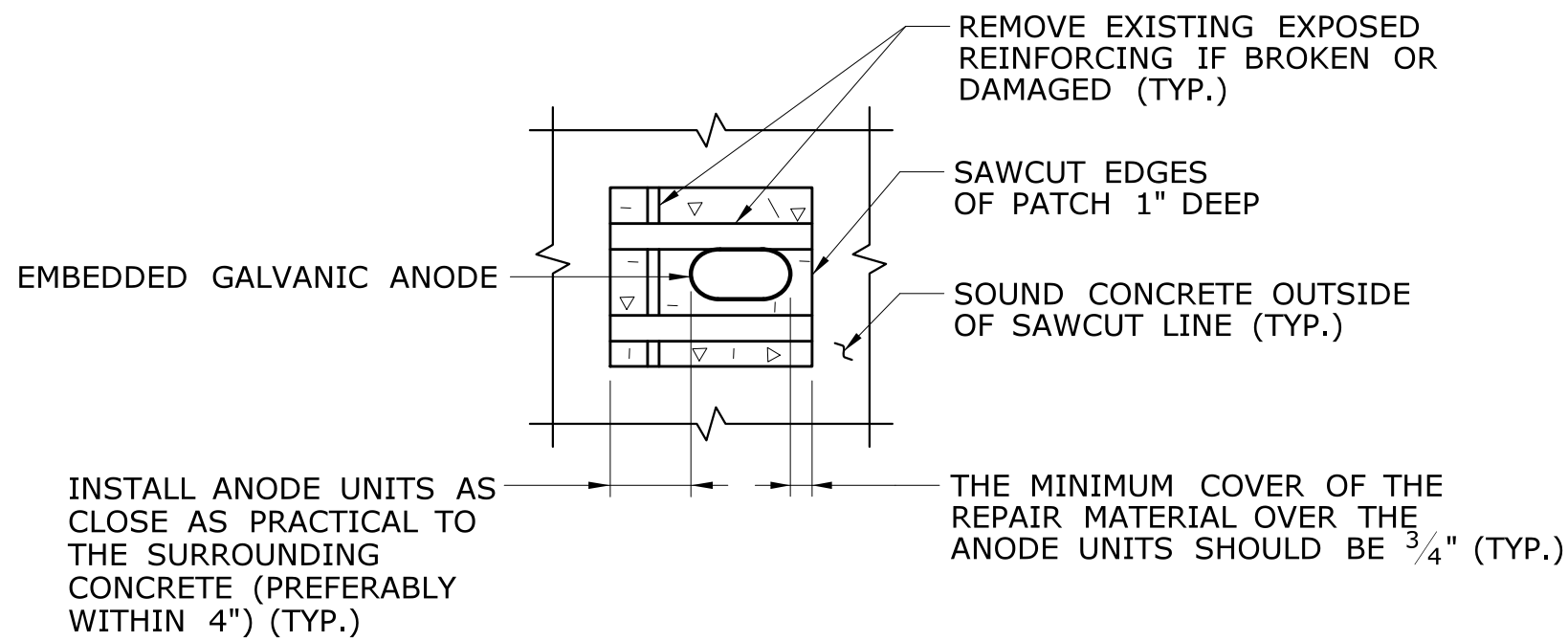
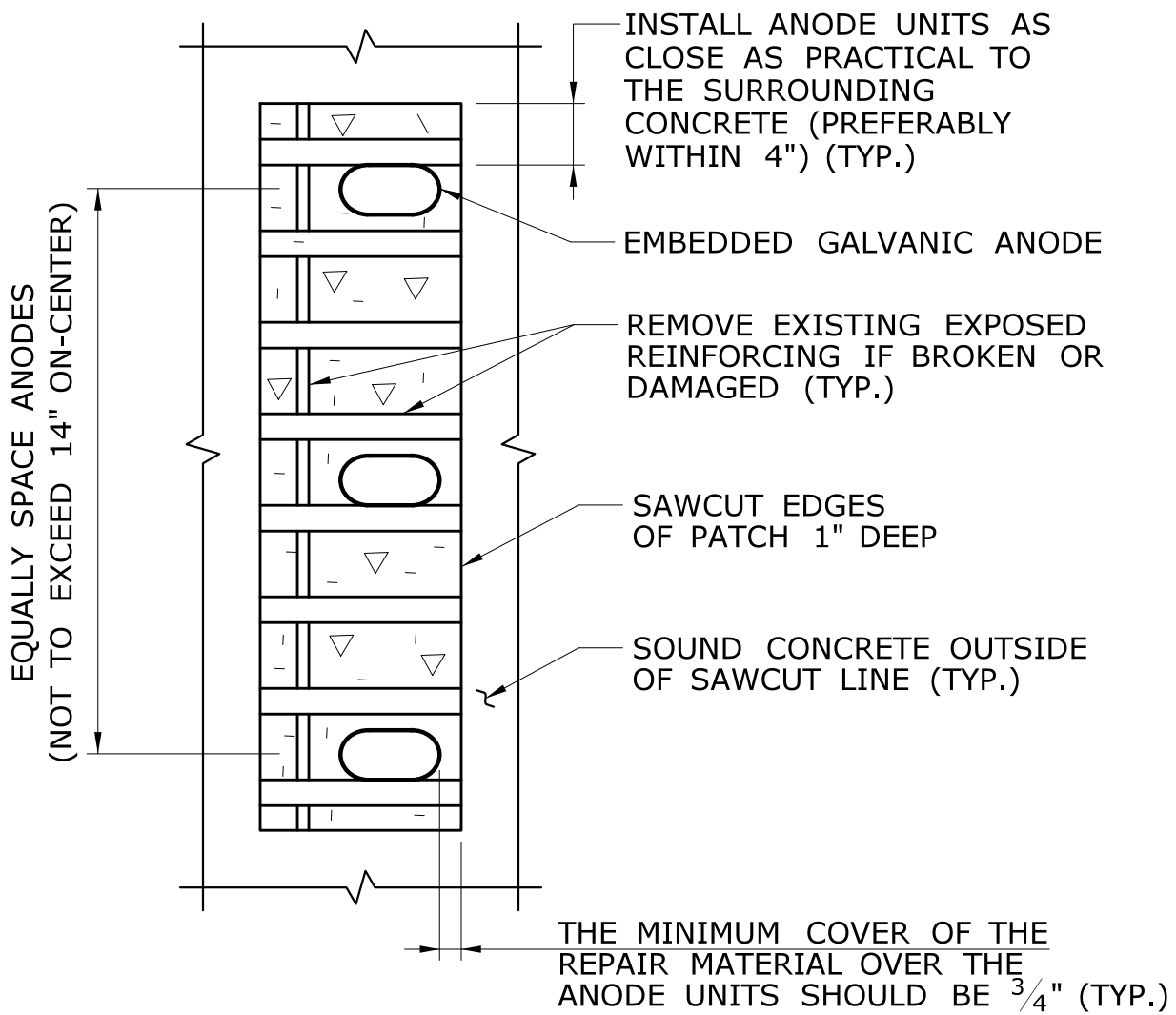
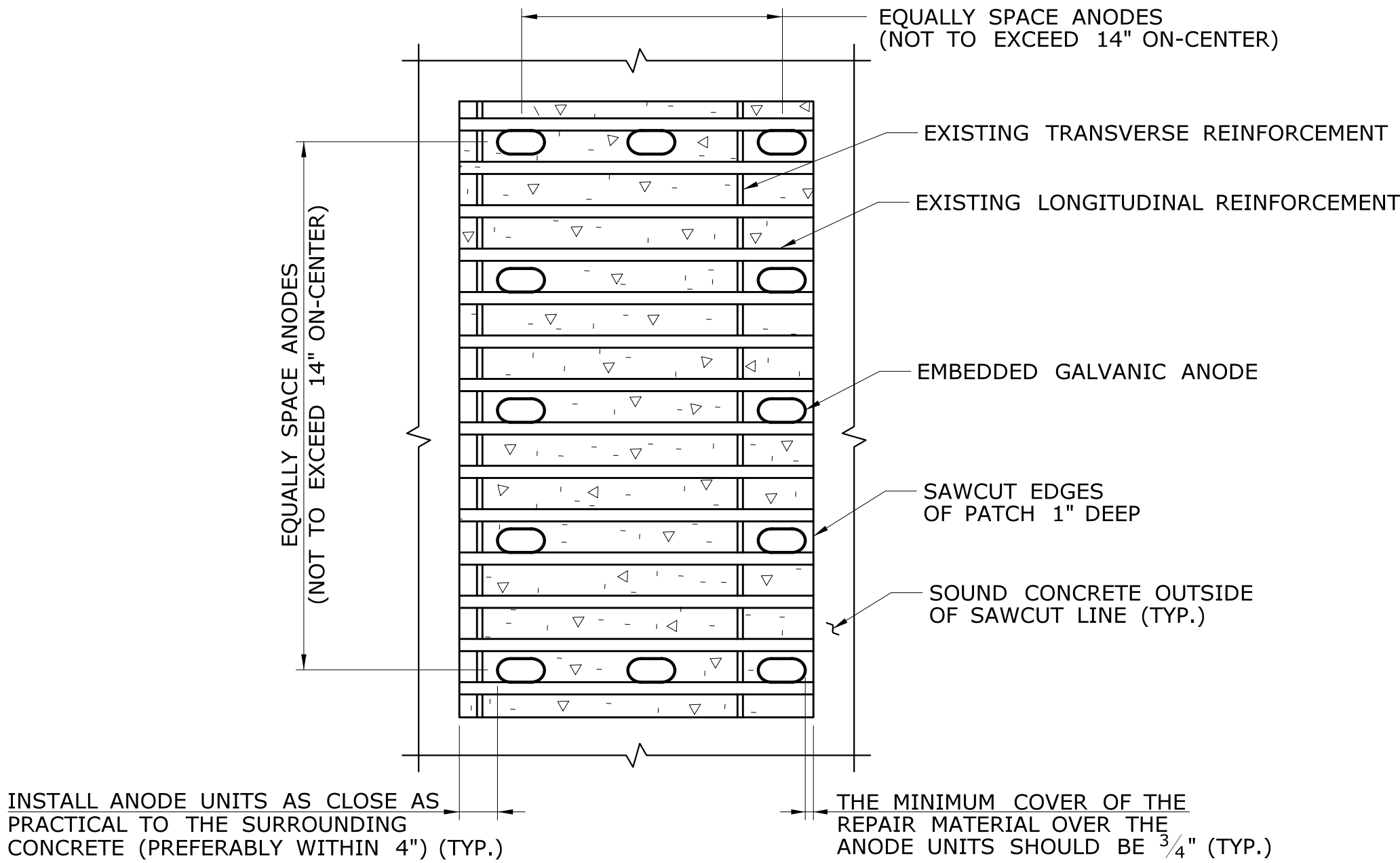


FLOWCHART TO DETERMINE TYPE OF CONCRETE REPAIR




REINFORCING REPAIR DETAIL

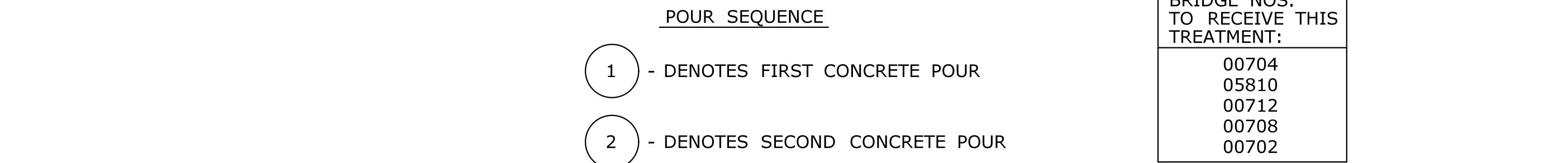
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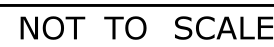
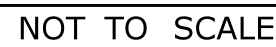
INSTALLATION OF EMBEDDED GALVANIC ANODES

NOT TO SCALE

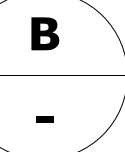
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: JPC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS	TOWN: NEW CANAAN	PROJECT NO. 89-125		
-	-	-	-		CHECKED BY: KVB				APPROVED BY:		DRAWING TITLE: TYPICAL CONCRETE REPAIR DETAILS	SHEET NO. S-6
-	-	-	-									
-	-	-	-									
-	-	-	-									
-	-	-	-									
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 2/20/2013	SCALE AS NOTED	Filename: ...\\SB-89-125-Typical-Concrete-Repair-Details.dgn						

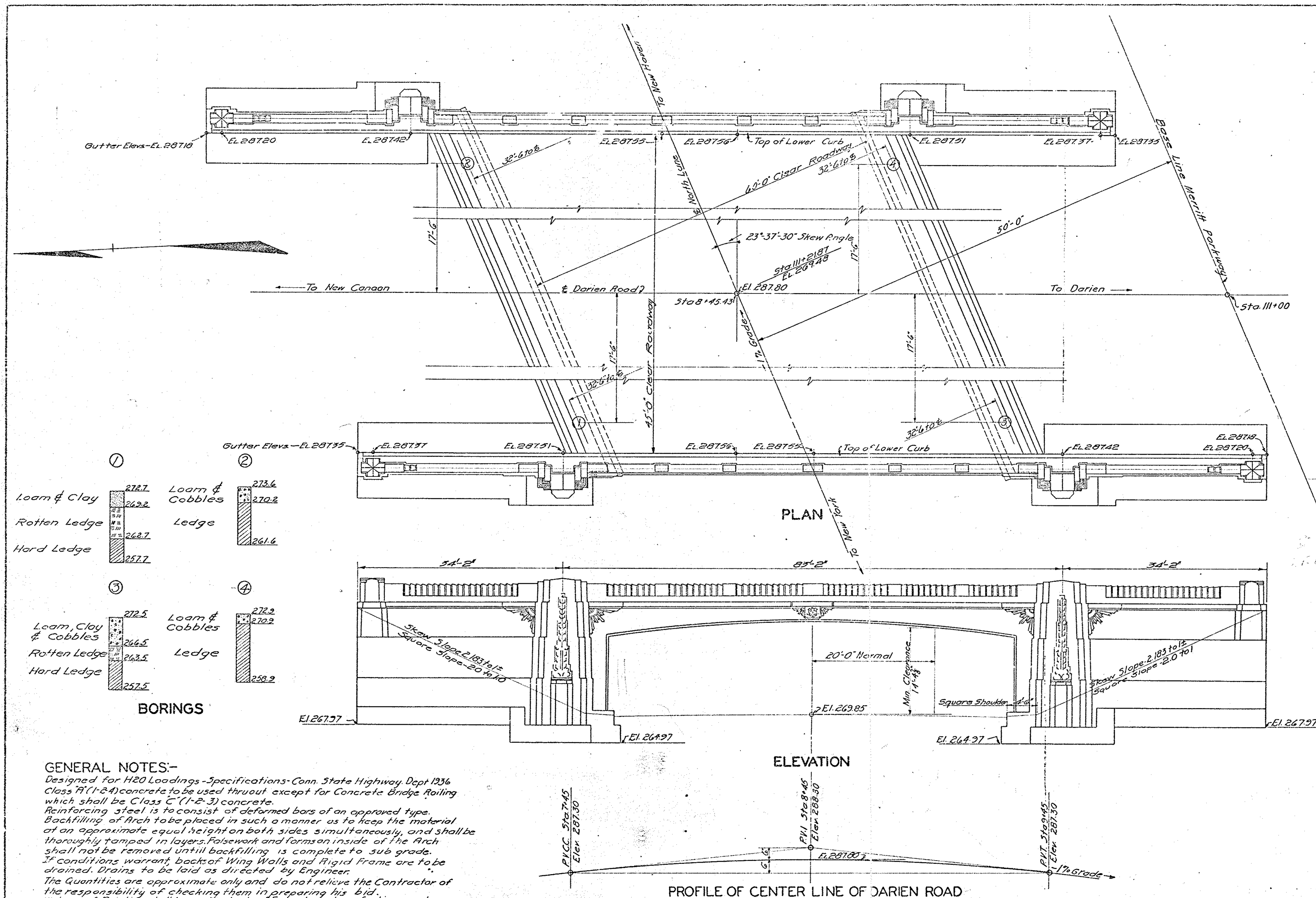


N.T.S.



SCALE: 1" = 1'-0"

[illegible]



FED. ROAD DIST. NO.	STATE	TOWN	FED. AID PROGRAM NO.	FISCAL YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	CONN.						

QUANTITIES

Unclassified Excavation	Cu.Yd.	700
Class A (1-2-4) Concrete	Cu.Yd.	1466
Deformed Steel Bars	Lb.	138517
Concrete Bridge Rail	Lin.ft	268.5
Concrete Pavement	Cu.Yd.	70
Bar Mat Reinf. for Conc. Pavt.	Sq.Yd.	364
Cast Stone Ornaments	Each	4
Membrane Waterproofing (without protection course)	Sq.Yd.	425
2" Cork Joint Filler	Sq.ft.	620
1/4" Prem. Expansion Joint	Lin.ft	510
Waterproof Painting	Sq.Yd.	350
State Coat of Arms (Furnished by State)	Each	1
Setting State Coat of Arms	Each	1
Portland Cement	Bbls.	2450
Ornament Moulds	Each	8

APPROVED October 13 1936

ENGINEER OF BRIDGE DESIGN

APPROVED Oct. 14 1936

ENGINEER OF BRIDGES AND STRUCTURES

APPROVED 1936

DEPUTY HIGHWAY COMMISSIONER

BR. No. 00712

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW CANAAN
MERRITT PARKWAY
UNDER
DARIEN ROAD
REINF. CONCRETE RIGID FRAME
GENERAL PLAN

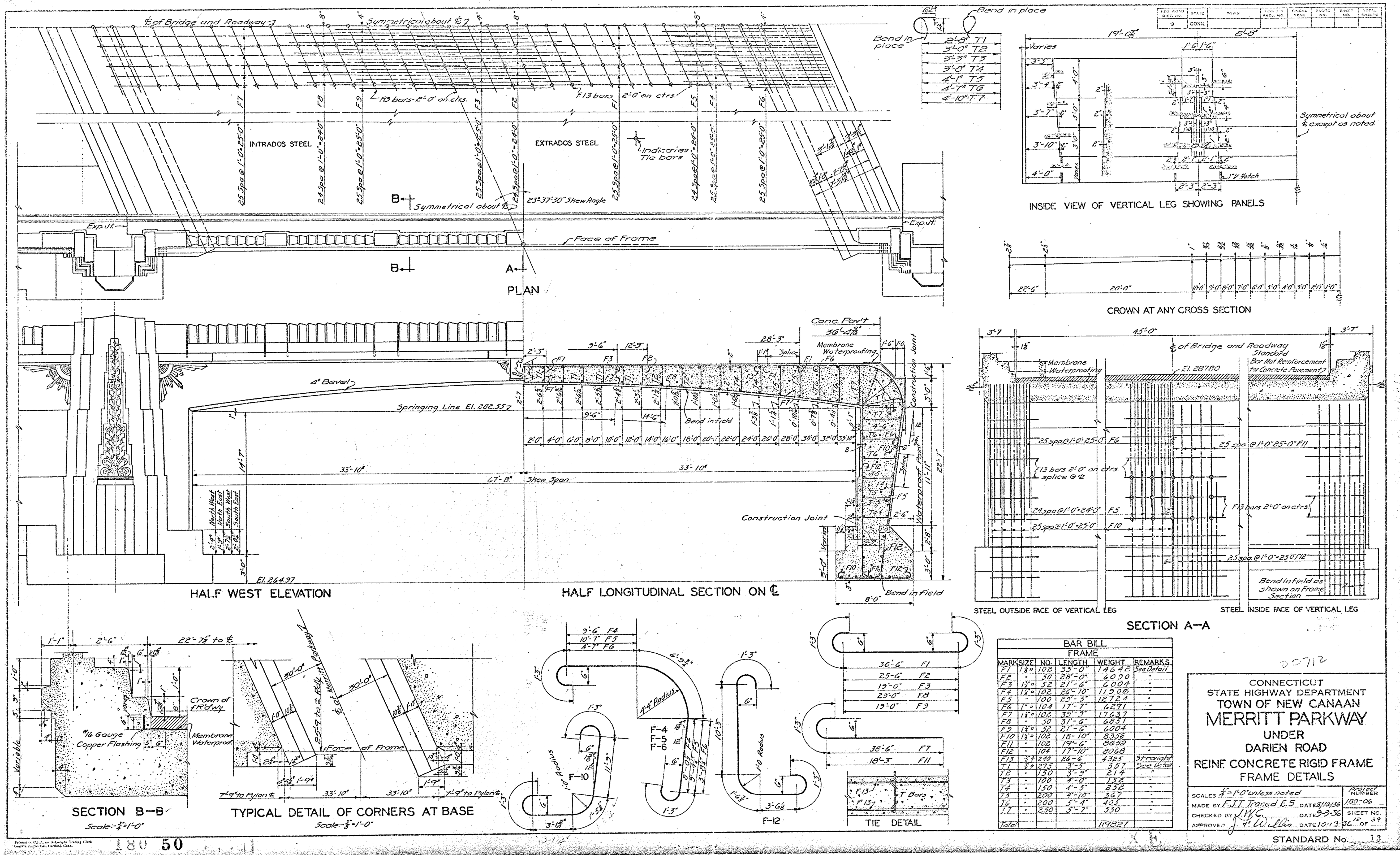
SCALES 1"=10'
MADE BY E.J.T. Traced E.C.S. 8/11/36
CHECKED BY J.W.C. DATE 9/28/36
APPROVED DATE 11 OF 39

STANDARD No. 12

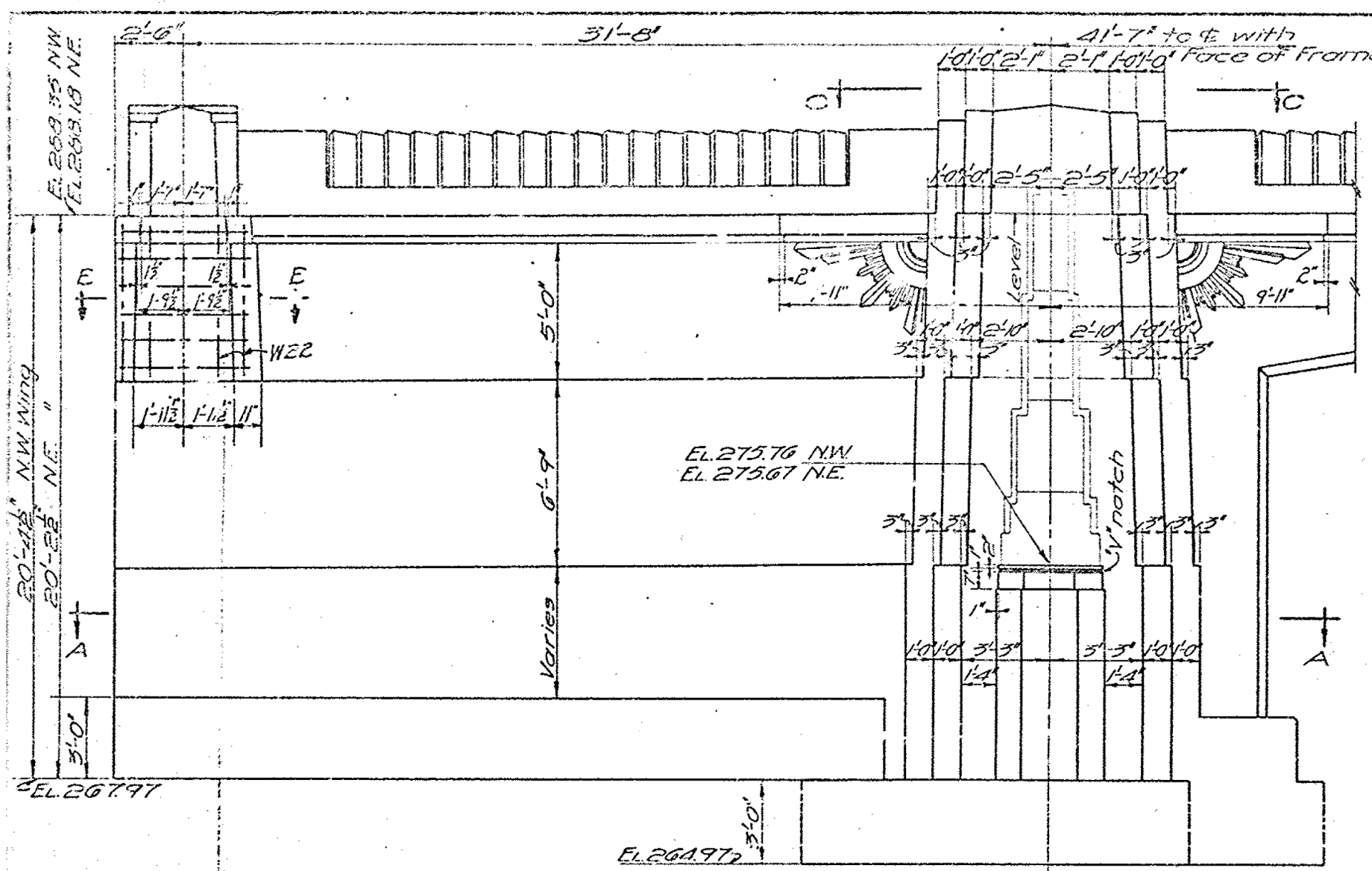
BR. No. 00712

REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 2/19/2013	DESIGNER/DRAFTER: MC	CHECKED BY:	NOT TO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	APPROVED BY:	DATE:	PROJECT TITLE: MERRITT PARKWAY (ROUTE 15) SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS	TOWN: NEW CANAAN	PROJECT NO. 89-125
												DRAWING TITLE: GENERAL PLAN BRIDGE NO. 00712	DRAWING NO. S-8
													SHEET NO.

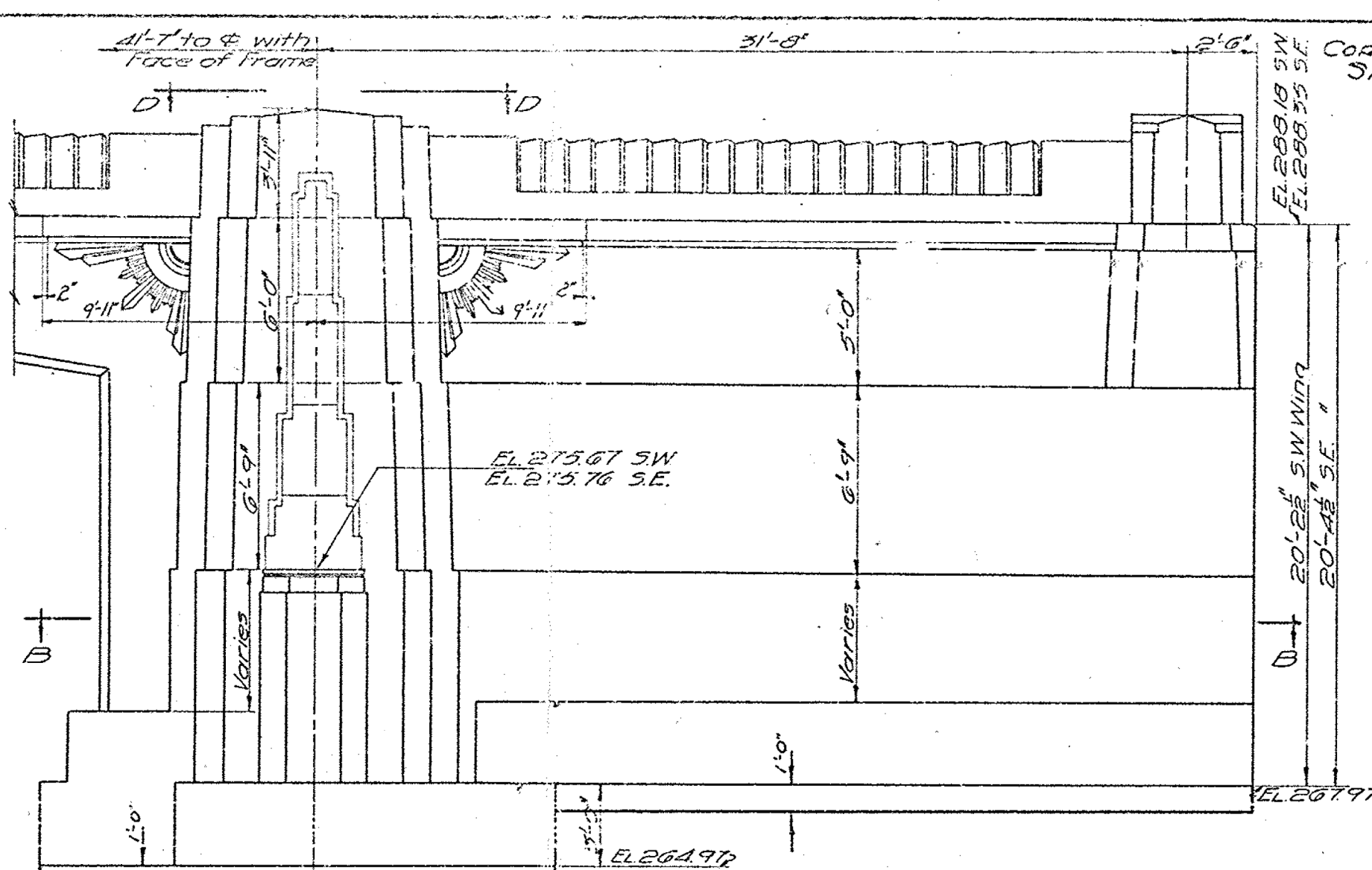
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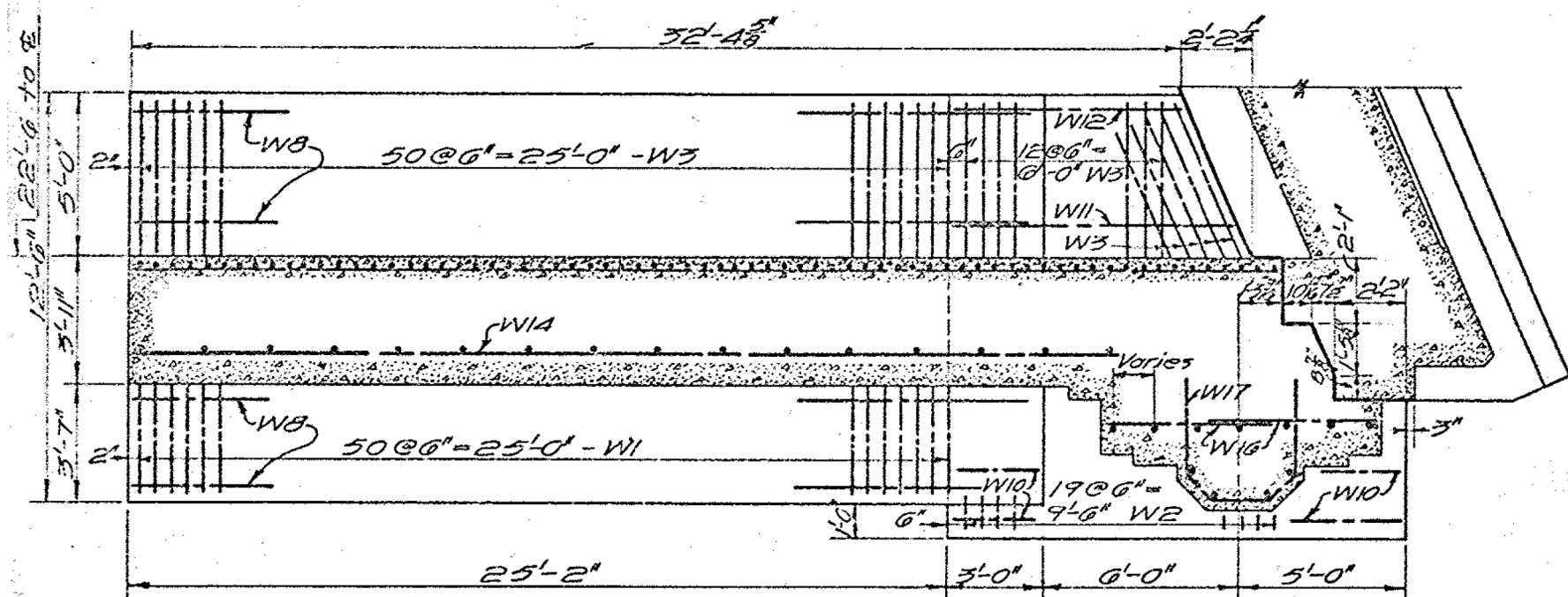
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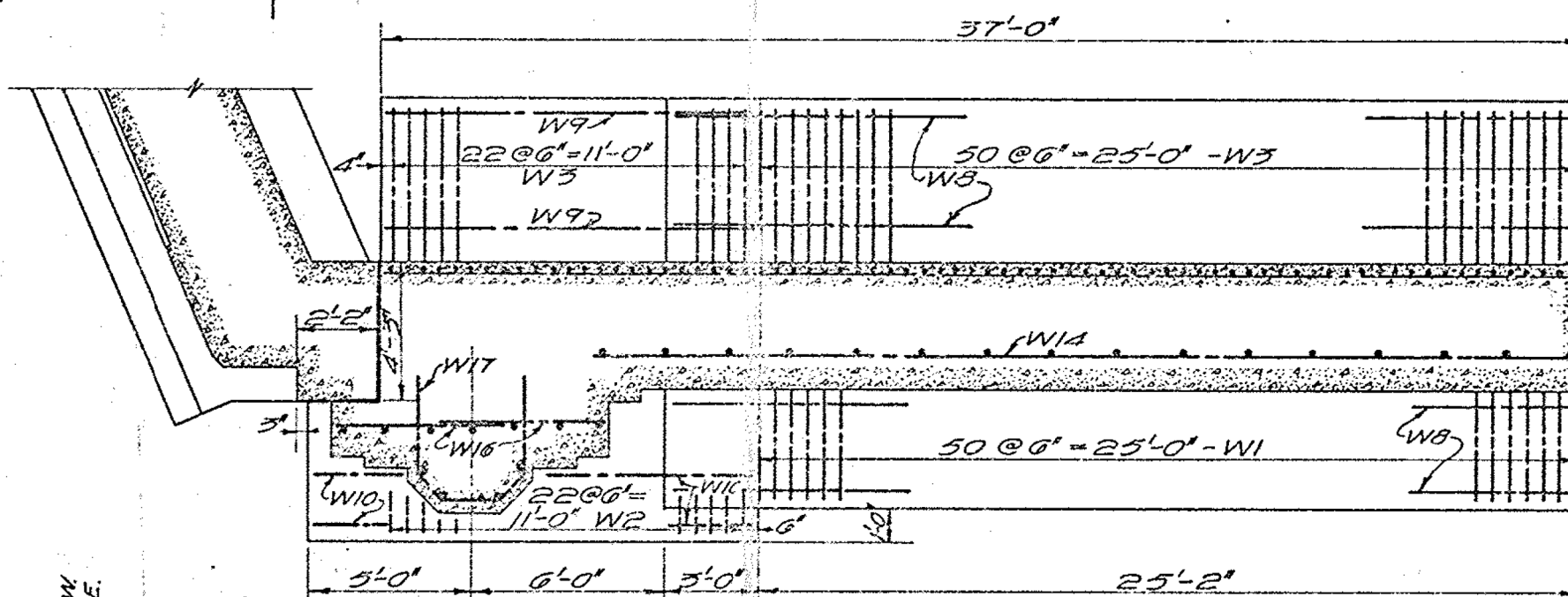
ELEVATION OF NORTH WEST WING



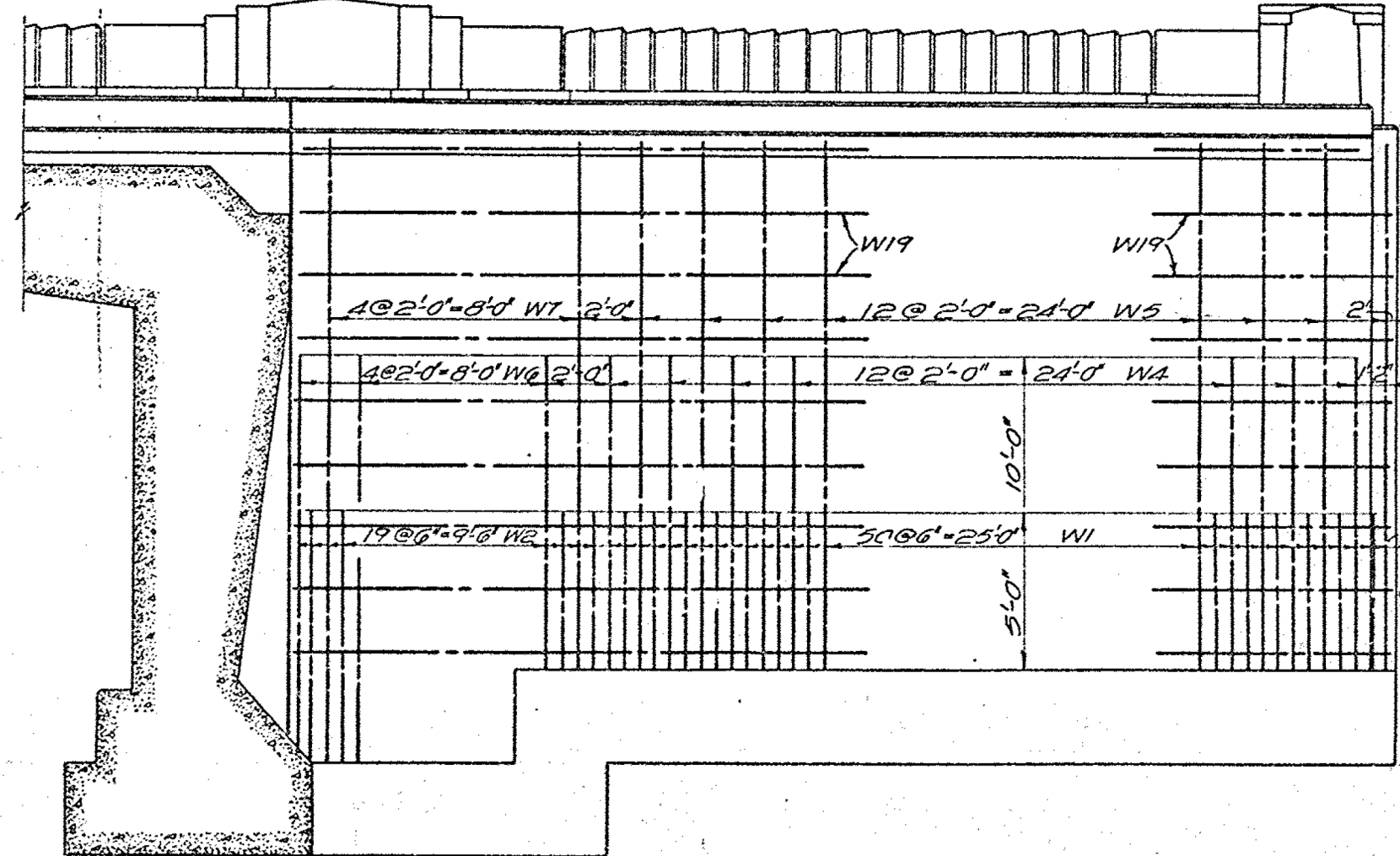
ELEVATION OF SOUTH WEST WING



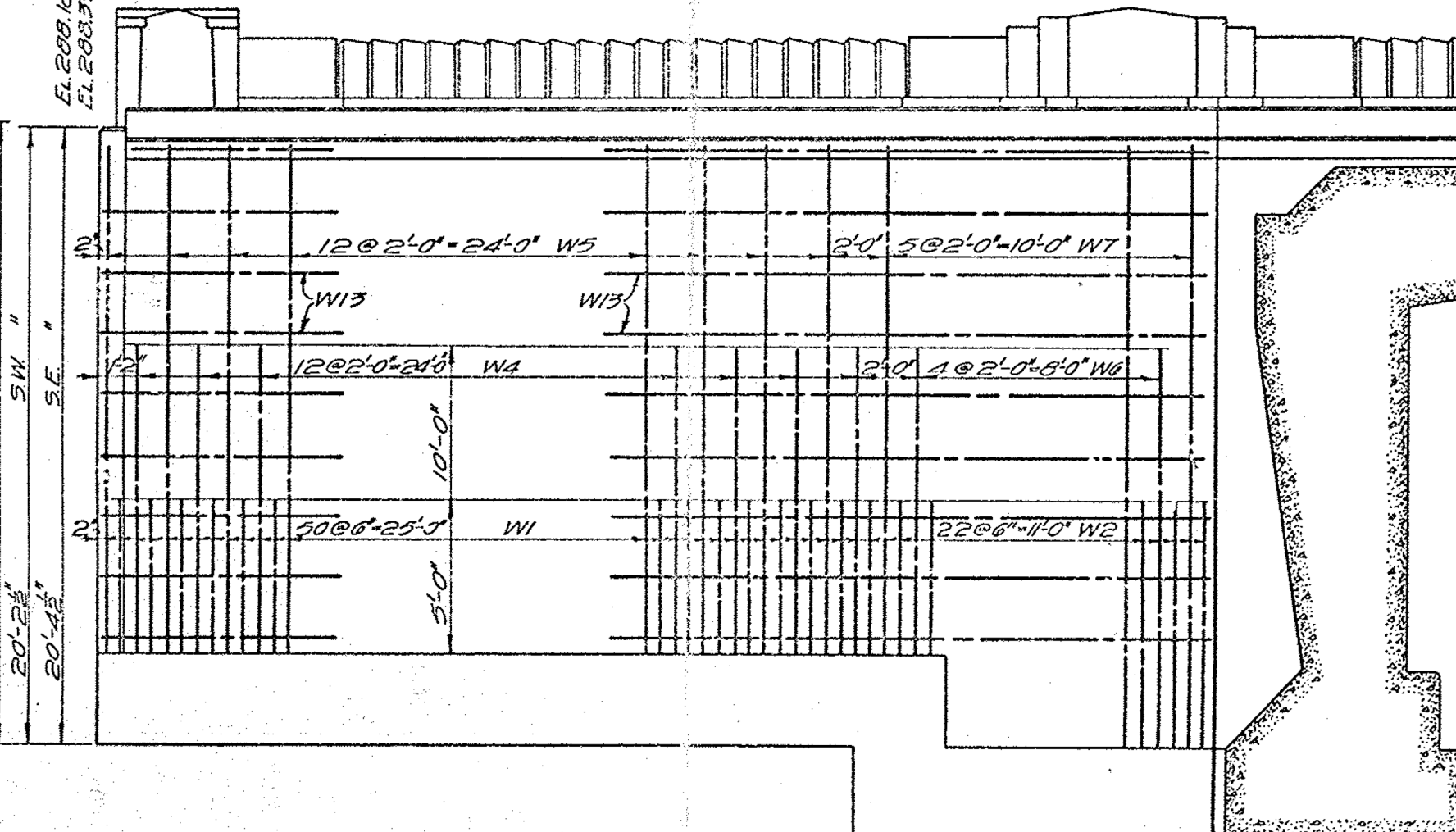
SECTION A-A



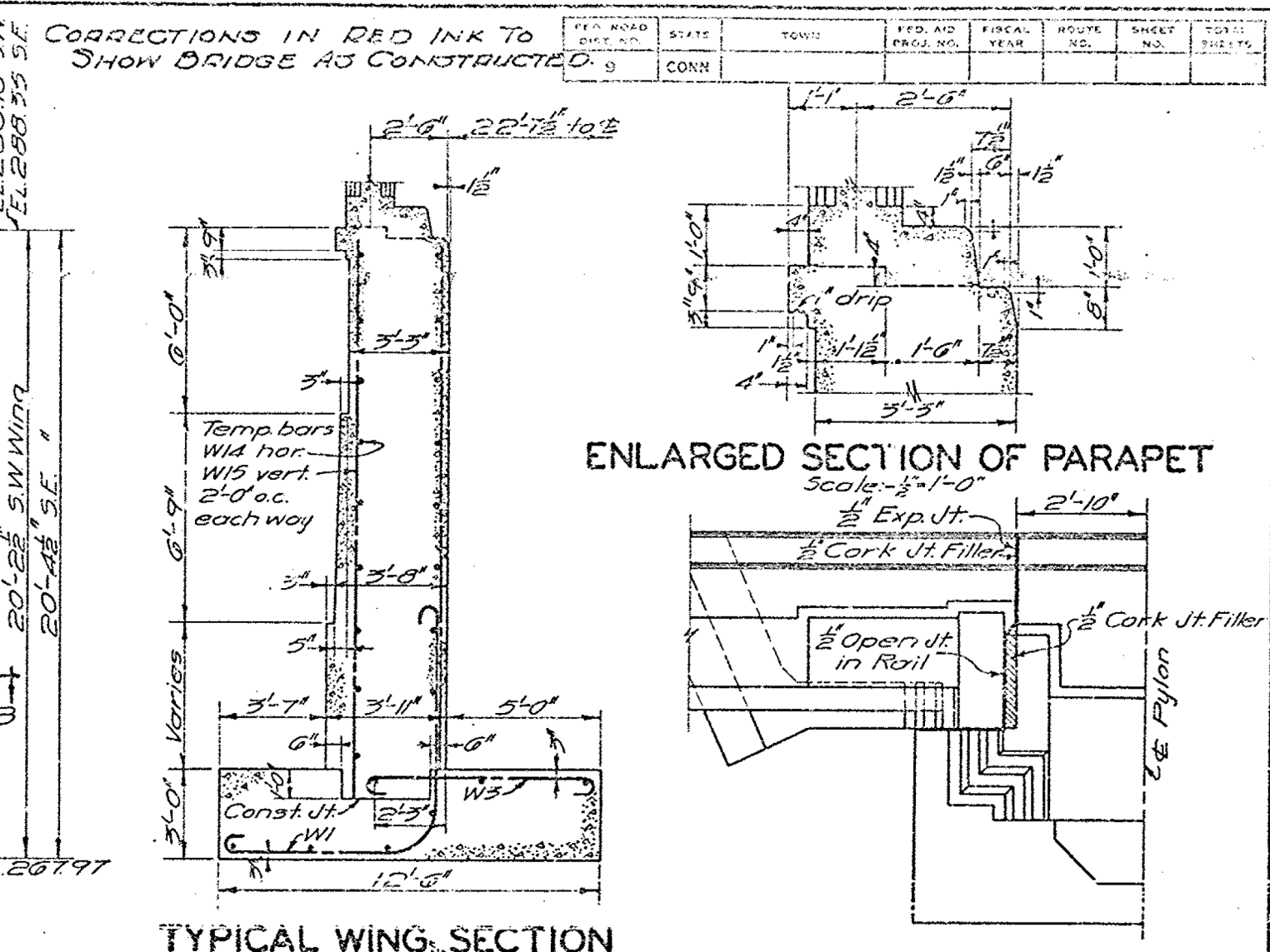
SECTION B-B



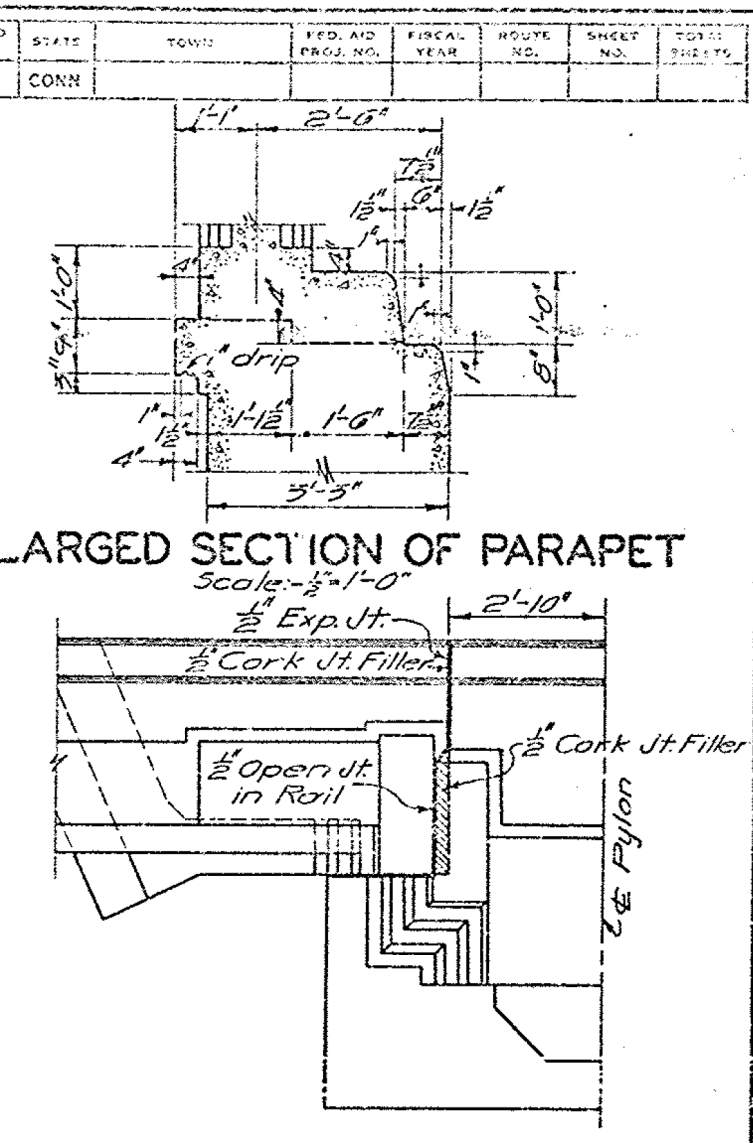
REAR ELEVATION OF NORTH WEST WING



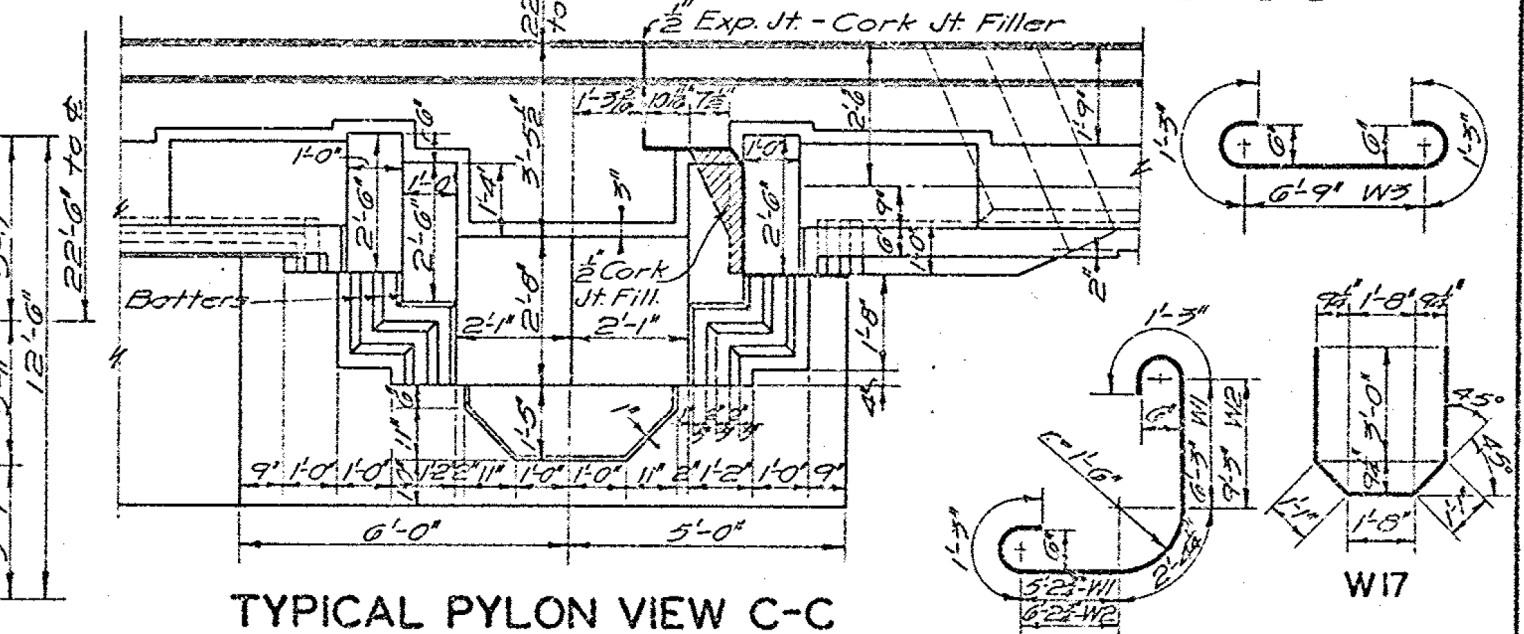
REAR ELEVATION OF SOUTH WEST WING



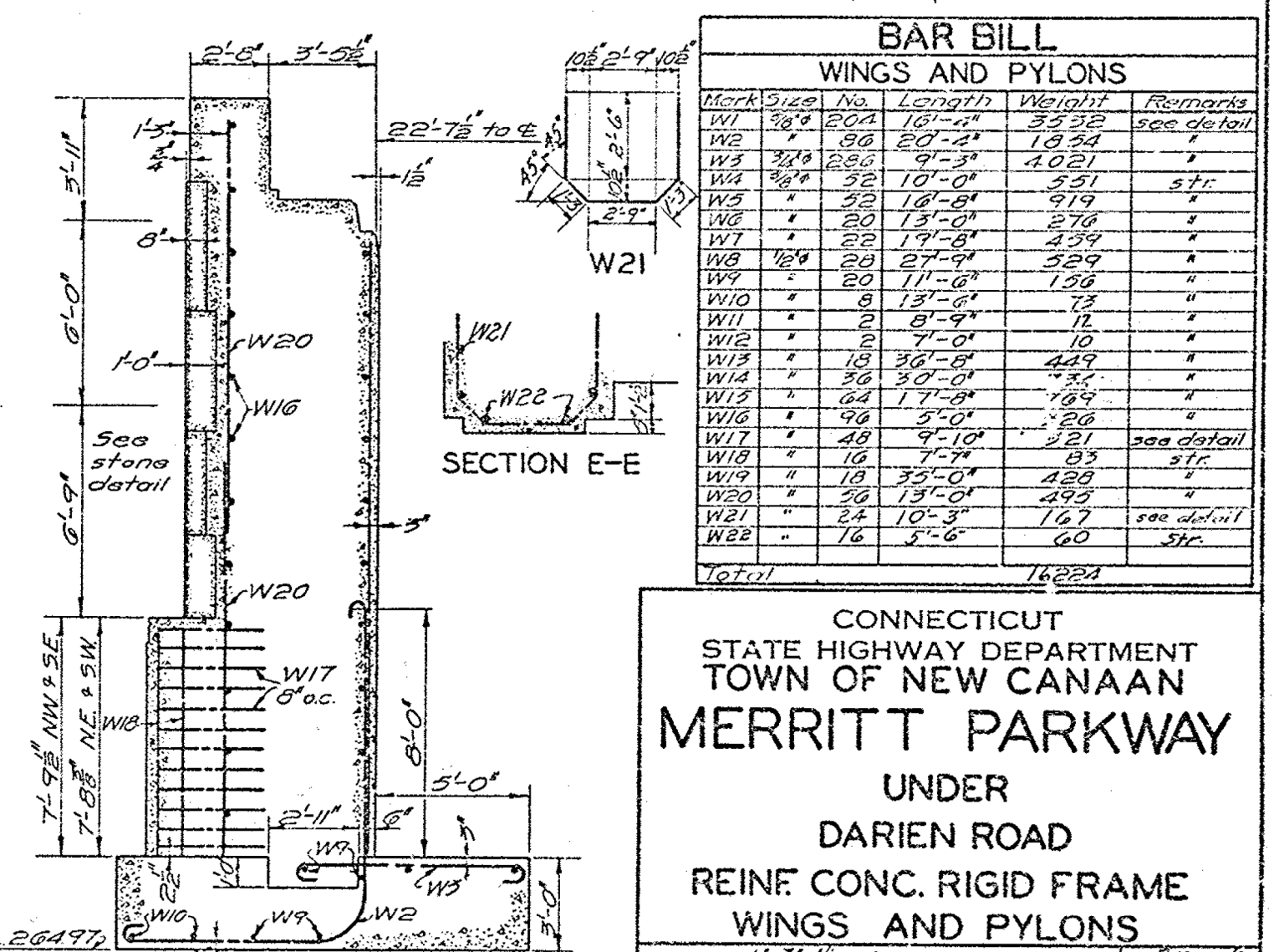
TYPICAL WING SECTION



PART PYLON VIEW D-D



TYPICAL PYLON VIEW C-C



TYPICAL PYLON SECTION

BAR BILL					
WINGS AND PYLONS					
WING	NO.	Length	Weight	Remarks	
W1	382	20'-0"	8.33	see detail	
W2	80	20'-0"	19.34		
W3	219	20'-0"	4.021		
W4	282	10'-0"	3.51		
W5	55	18'-0"	3.79		
W6	20	13'-0"	2.70		
W7	22	17'-0"	4.35		
W8	29	27'-0"	19.9		
W9	20	11'-0"	1.29		
W10	8	13'-0"	.73		
W11	2	9'-0"	.10		
W12	2	7'-0"	.10		
W13	18	36'-0"	4.47		
W14	26	36'-0"	4.59		
W15	64	17'-0"	1.65		
W16	99	5'-0"	.26		
W17	48	9'-10"	2.21	see detail	
W18	18	7'-0"	.83		
W19	18	35'-0"	4.29		
W20	29	13'-0"	4.93		
W21	26	10'-0"	1.67	see detail	
W22	18	5'-0"	.30		
Total			16.224		

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF NEW CANAAN
MERRITT PARKWAY
UNDER
DARIEN ROAD
REINFORCED CONCRETE RIGID FRAME
WINGS AND PYLONS

SCALES: 1" = 10'-0"
MADE BY: J. J. F. F. DATE: 8-1-36
CHECKED BY: J. J. F. F. DATE: 9-10-36
APPROVED: J. J. F. F. DATE: 10-13-36

STANDARD No. 15

